**Assignment 1**

**Data Visualization**

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**Source Code**

setwd("D:Data Science Program")

#Exercise-1

data = read.csv("germination\_csv.csv",header=TRUE)

# Q.1)

mean(data$germinated[data$Box=="Uncovered" & data$water\_amt==4])

# Q.2)

median(data$germinated[data$Box=="Covered"])

# Q.3)

# a)

plot(data$water\_amt, data$germinated, main="Germinated seeds vs Level of watering", xlab="Level of watering", ylab="Germinated seeds")

# b)

data$Box = factor(data$Box)

data$Box

plot(data$Box, data$germinated, main="Germinated seeds vs Covered or Uncovered", xlab="Box Types", ylab="Germinated seeds")

#Exercise-2

library(readxl)

wheat <- read\_excel("wheat.xlsx")

wheat

wheat$State = factor(wheat$State)

plot(wheat$State, wheat$`2015 (Th. Tonnes)`, main="Wheat produced per State in 2015", xlab="States", ylab="Wheat produced")

plot(wheat$State, data$`2016 (th. Tonnes)`, main="Wheat produced per State in 2016", xlab="States", ylab="Wheat produced")

#Exercise-3

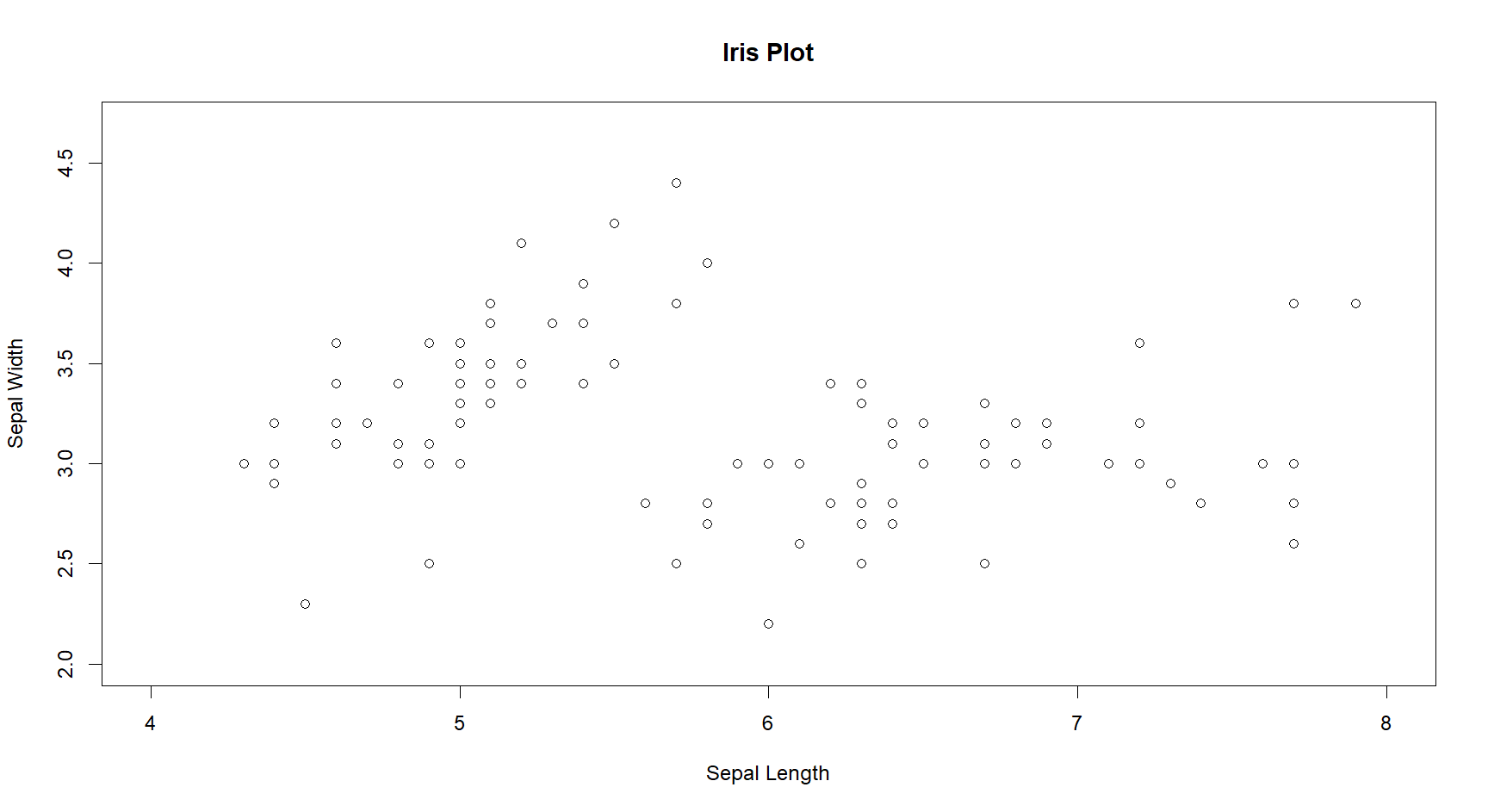
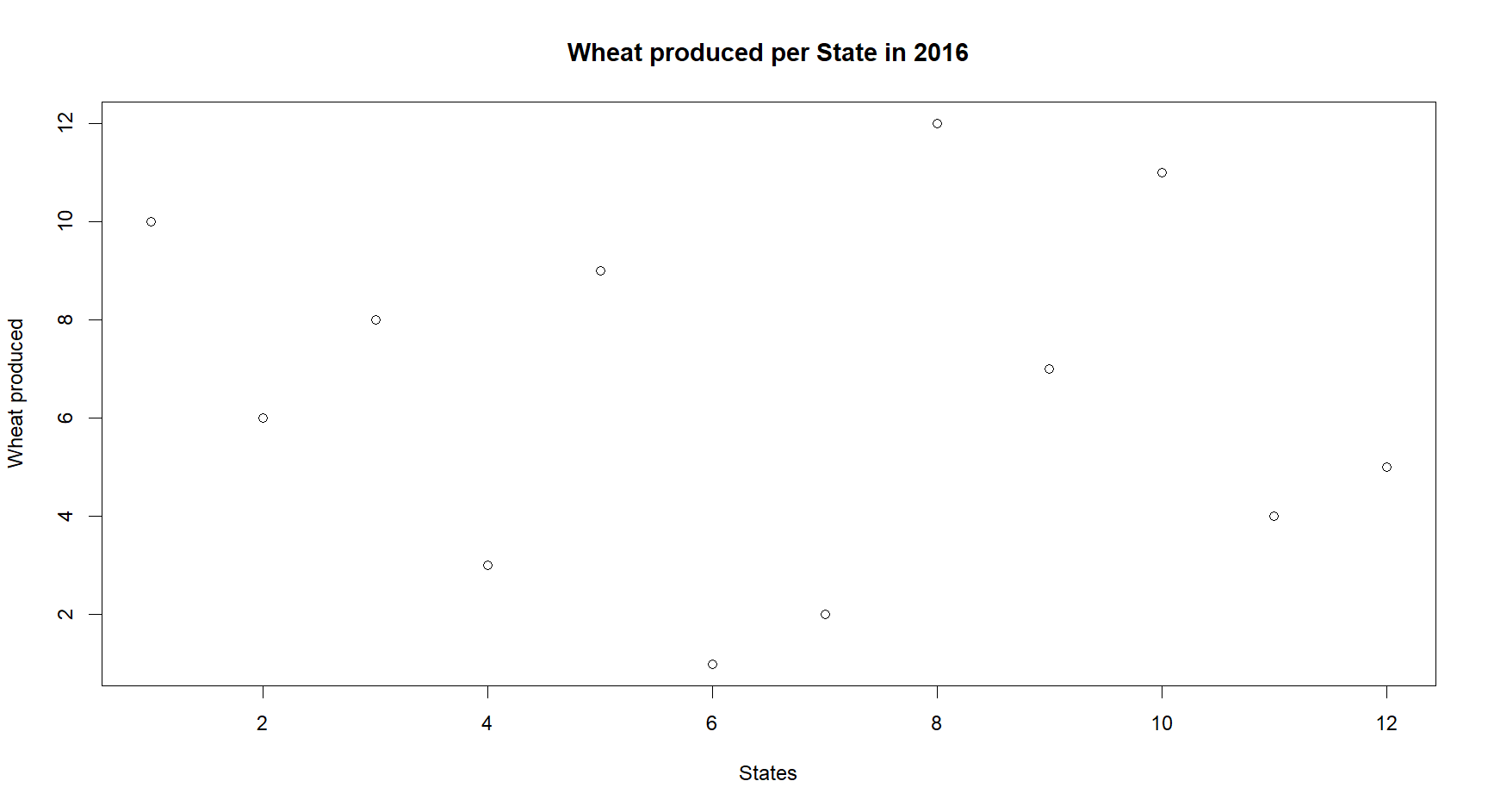
library(readxl)

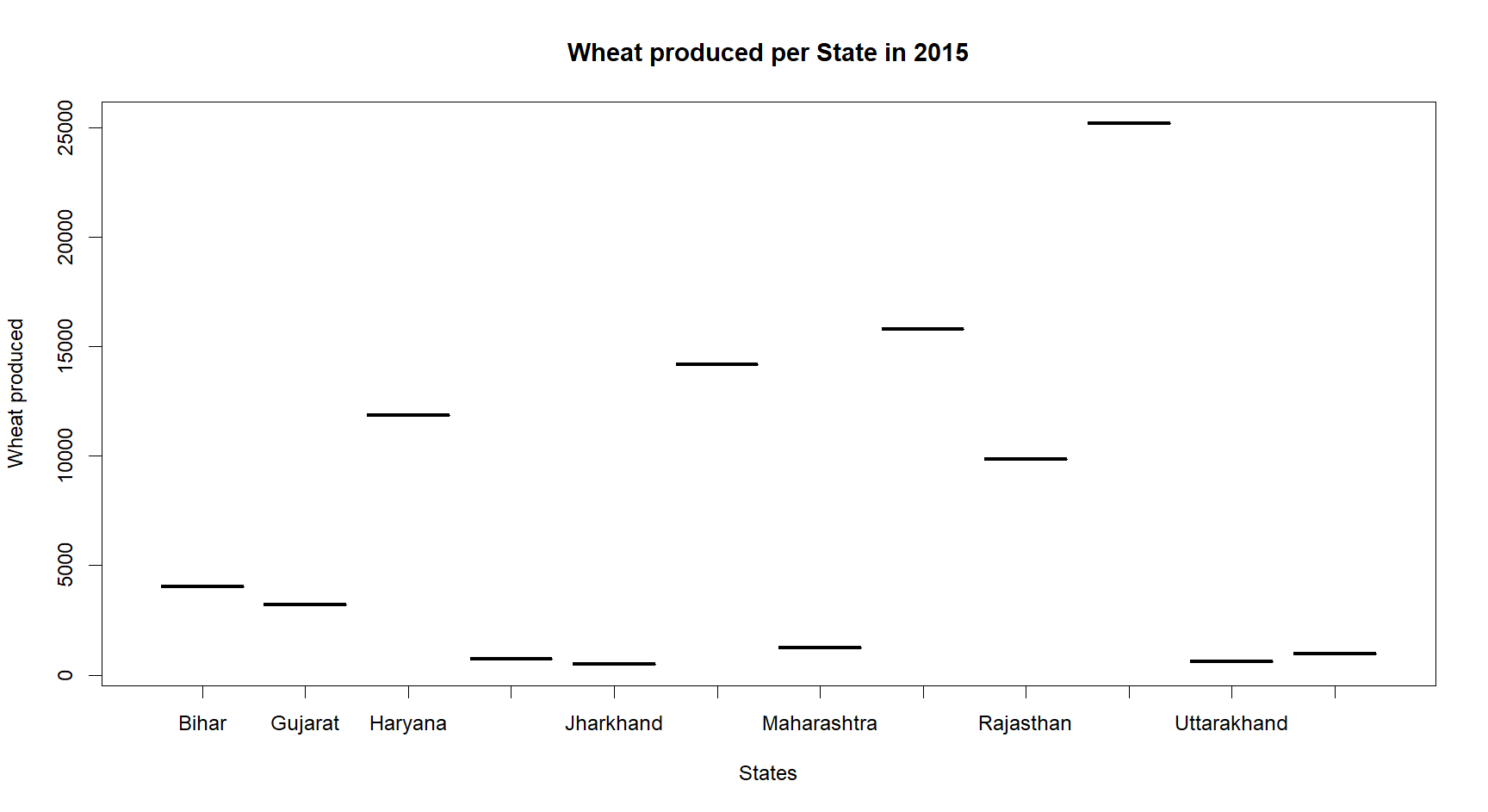
iris = read\_excel("iris data.xlsx")

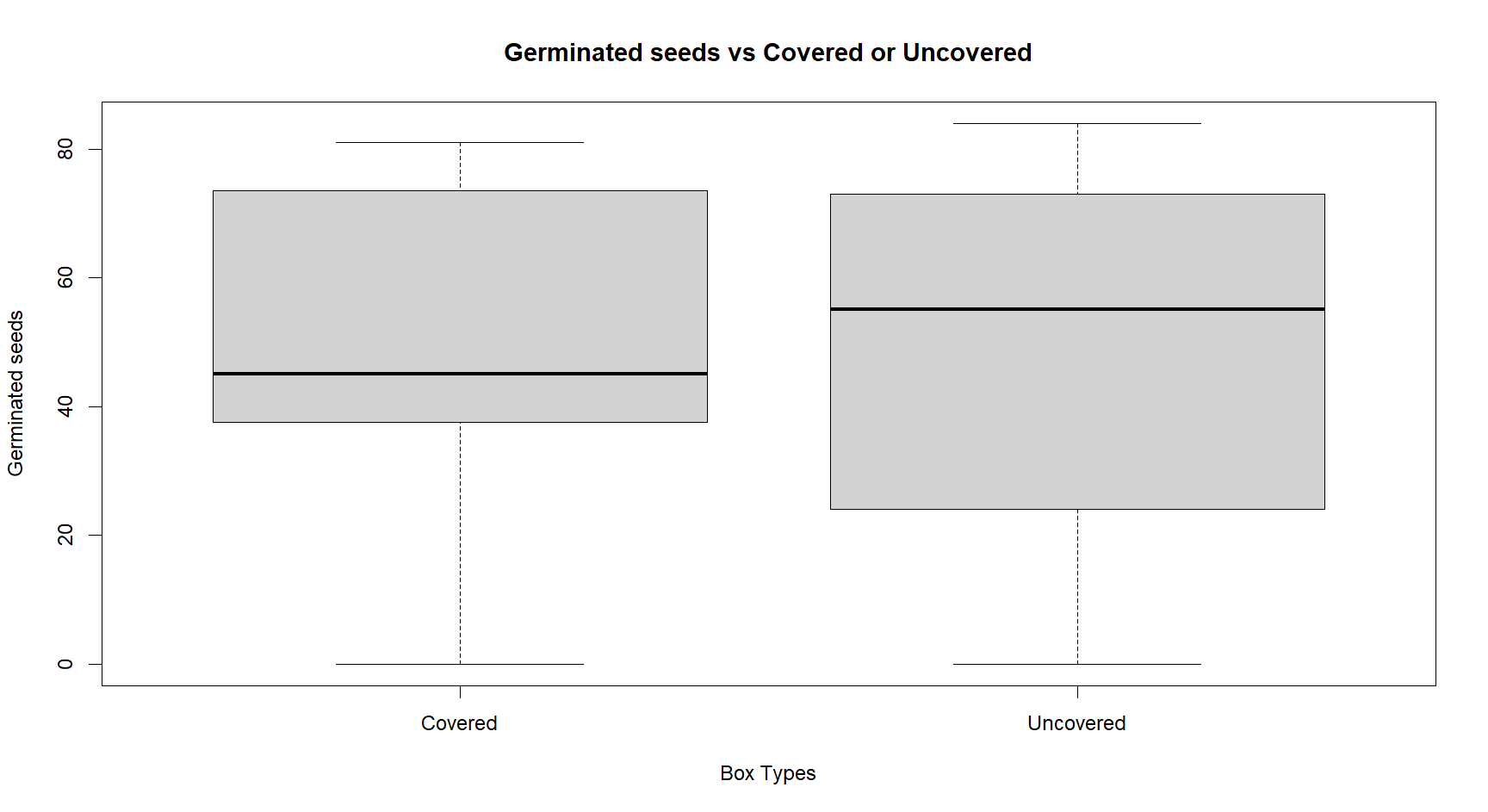
iris

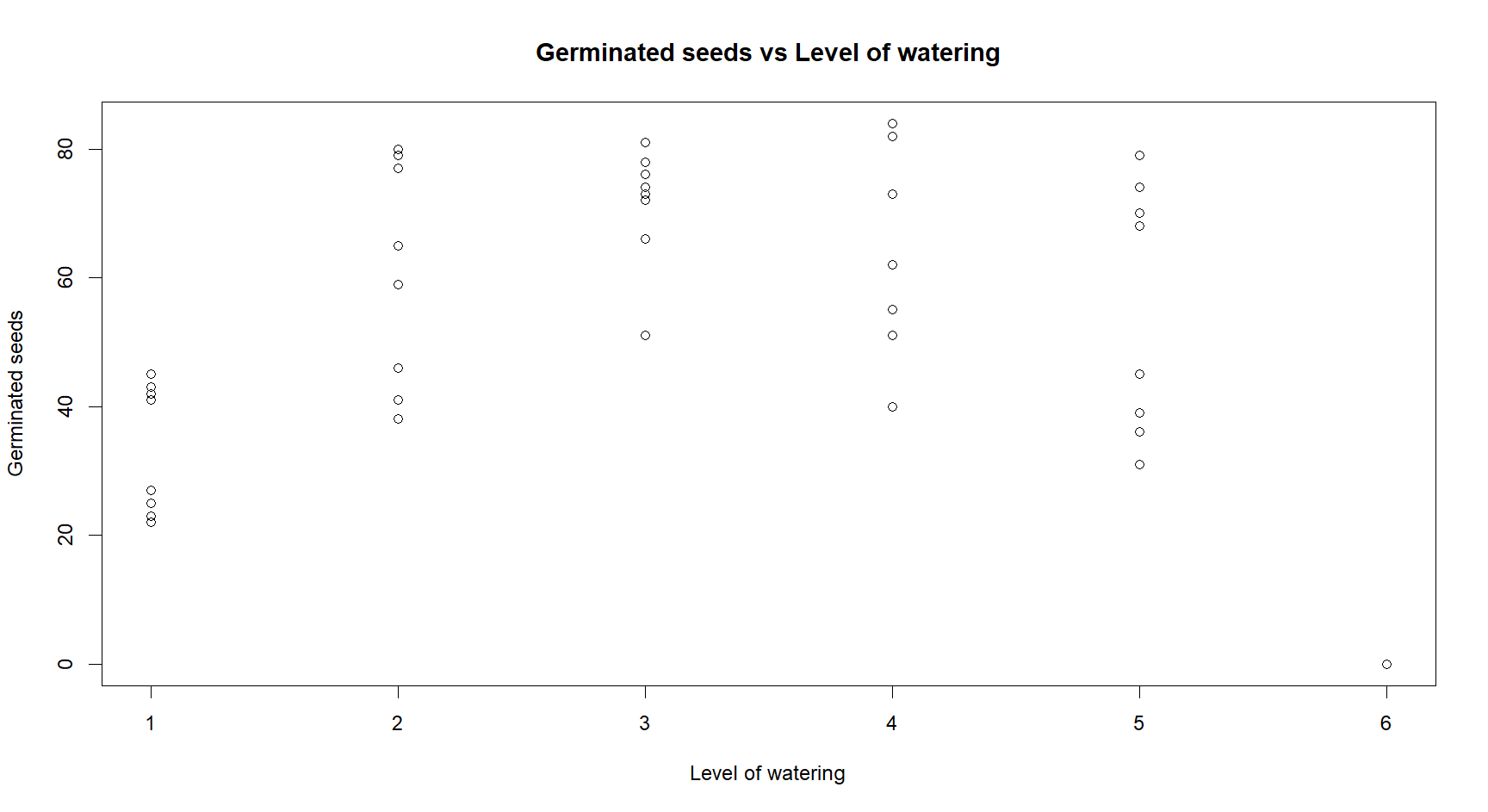
plot(x=iris$`sepal length`, y=iris$`sepal width`, main='Iris Plot', xlab='Sepal Length', ylab='Sepal Width', xlim=c(4,8), ylim=c(2,4.7))

**Output:**

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